549,806

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau





(43) International Publication Date 30 September 2004 (30.09.2004)

PCT

(10) International Publication Number WO 2004/083697 A1

(51) International Patent Classification7: A63B 41/00, B60C 29/00

F16K 15/14,

(21) International Application Number:

PCT/AU2004/000329

- (22) International Filing Date: 17 March 2004 (17.03.2004)
- (25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

 2003901224
 17 March 2003 (17.03.2003)
 AU

 2003903713
 18 July 2003 (18.07.2003)
 AU

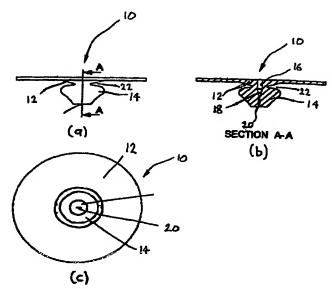
 1113/2003
 22 December 2003 (22.12.2003)
 PK

- (71) Applicant (for all designated States except US): GLOBAL VALVE TECHNOLOGY PTY LTD [AU/AU]; PO Box 661, Manly, New South Wales 1655 (AU).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): HORTON, David [AU/AU]; 40 Waragal Avenue, Rozelle, New South Wales 2039 (AU). MEYER, Allan, Dolph [AU/AU]; 8 Hartree Place, Cherrybrook, New South Wales 2126 (AU).

- (74) Agent: BLAKE DAWSON WALDRON PATENT SER-VICES; Level 36 Grosvenor Place, 225 George Street, Sydney, New South Wales 2000 (AU).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

[Continued on next page]

(54) Title: A SPORTS BALL VALVE



(57) Abstract: The present invention provides a valve (10) comprising a mounting member (12) for mounting of the valve. The valve includes a collapsible aperture (20) which in an open condition allows for flow of a fluid in a forward direction through the valve whilst in a closed condition prevents flow of fluid in a reverse direction. In one form of the valve, the valve element is connected to the mounting member (12) via an isolation zone (22) that reduces likelihood of the collapsible aperture moving to an open condition under impact. In another form of the valve, the valve element is configured to provide opening of the collapsible aperture on application of a predetermined force to the mounting member. In a final form of the valve, the valve comprises a sports ball valve having a collapsible aperture which is opened by fluid pressure alone.

Published:

- with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.